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- Derwent Title:** Encapsulation of an organic core containing an active material, with an outer layer of aluminum hydroxy carbonate - giving good protection and easy release on change of pH
- Original Title:** ☒ **FR2774906A1:** SYSTEME D'ENCAPSULATION A COEUR ORGANIQUE ET A ECORCE MINERALE A BASE D'HYDROXYCARBONATE D'ALUMINIUM ET SON PROCEDE DE PREPARATION
- Assignee:** RHODIA CHIM Standard company  
Other publications from [RHODIA CHIM \(RHOD\)](#)...
- Inventor:** DEPUIS D; DUPUIS D;
- Accession/Update:** 1999-496128 / 200361
- IPC Code:** A61K 9/50 ; A61K 9/52 ;
- Derwent Classes:** [A96](#); [B07](#); [C07](#); [D21](#);
- Manual Codes:** [A12-V01](#)(Medicines, pharmaceuticals) , [A12-V04](#) (Cosmetics, toilet requisites) , [B03-L](#)(Vitamins [general]) , [B04-B01C3](#)(Mineral oils and waxes) , [B04-C03B](#)(Other addition polymers [exc. poly n-vinyl lactams]) , [B04-C03D](#) (Natural, other condensation [exc. polyethers]) , [B05-A01B](#)(Group 1a, 2a, 3a metals and compounds [exc. K, B, Ra]) , [B12-M11C](#)(Capsule) , [B14-B04B](#)(Insecticide general and other) , [C03-L](#)(Vitamins [general]) , [C04-B01C3](#)(Mineral oils and waxes) , [C04-C03B](#)(Other addition polymer [exc. poly N-vinyl lactams]\*\*) , [C04-C03D](#) (Natural, other condensation [exc. polyether]) , [C05-A01B](#) (Group 1a, 2a, 3a metals and compounds [exc. K, B, Ra]) , [C12-M11C](#)(Capsule) , [C14-B04B](#)(Insecticide general and other) , [D08-B10](#)(Carriers or bases for cosmetics)
- Derwent Abstract:** ([FR2774906A](#)) **Novelty** - A system for the encapsulation of an organic core, containing at least one active material with a mineral shell of aluminum hydroxy carbonate, the cohesion between these two being through a non-ionic surfactant (I) having a hydrophobic segment and a hydrophilic segment.  
**Detailed Description** - The surfactant (I) is preferably one of the following: polyalkoxylated fatty alcohols, polyoxyalkylenated alkyl phenols, polyvinyl alcohols and alkyl ethers, and block copolymers. Preferably they are polyalkoxylated alcohols, tristyril phenols, and block copolymers, especially those having a hydrophile/ lipophile balance above 6. The final products preferably contain 1 - 3% of surfactant, calculated on the weight of organic compounds. The active material may have cosmetic, pharmaceutical, or phytosanitary applications, and may be incorporated into the core material in its normal form or as an aqueous emulsion or dispersion, especially as an emulsion containing up to 70% water with the active material dissolved in a silicone oil. Such emulsions and dispersions also contain a surfactant, which may be anionic, nonionic, or amphoteric, or zwitterionic. The mineral shell containing aluminum hydroxy carbonate may further contain a metal oxide or a precursor of this, typically oxides and their precursors of Si, Ti, Zr, Zn, Mg, Yt, Ce, and their mixtures. The particles preferably have a size in the range 0.1 - 10 micro m.  
**Use** - The active materials may be used in the cosmetic, phytosanitary and pharmaceutical industries.

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**Advantage** - The aluminum hydroxy carbonate coating gives very good protection for the active material, together with good release of the active material through diffusion or dissolution, following a change of pH.

Dwg.0/0

Family:

PDF Patent	Pub. Date	Derwent Update	Pages	Language	IPC Code
<input checked="" type="checkbox"/> <b>FR2774906A1</b> *	1999-08-20	199942	22	French	A61K 9/52
Local appls.: <u>FR199800001781</u> Filed: 1998-02-13 (98FR-0001781)					
<input checked="" type="checkbox"/> <b>US6616947</b> =	2003-09-09	200361	8	English	A61K 9/50
Local appls.: Based on <u>WO9940902</u> (WO 9940902) <u>US2000000622209</u> Filed: 2000-10-26 (2000US-0622209) <u>WO1999FR0000280</u> Filed: 1999-02-09 (99WO-FR00280)					
<input checked="" type="checkbox"/> <b>DE69900776E</b> =	2002-02-28	200223		German	A61K 9/50
Local appls.: Based on <u>WO9940902</u> (WO 9940902) Based on <u>EP01052978</u> (EP 1052978) <u>EP1999000903727</u> Filed: 1999-02-09 (99EP-0903727) <u>WO1999FR0000280</u> Filed: 1999-02-09 (99WO-FR00280) <u>DE1999000600776</u> Filed: 1999-02-09 (99DE-0600776)					
<input checked="" type="checkbox"/> <b>EP1052978B1</b> =	2002-01-09	200211	16	French	A61K 9/50
Des. States: (R) DE FR GB Local appls.: Based on <u>WO9940902</u> (WO 9940902) <u>WO1999FR0000280</u> Filed: 1999-02-09 (99WO-FR00280) <u>EP1999000903727</u> Filed: 1999-02-09 (99EP-0903727)					
<input checked="" type="checkbox"/> <b>EP1052978A1</b> =	2000-11-22	200061		French	A61K 9/50
Des. States: (R) DE FR GB Local appls.: Based on <u>WO9940902</u> (WO 9940902) <u>WO1999FR0000280</u> Filed: 1999-02-09 (99WO-FR00280) <u>EP1999000903727</u> Filed: 1999-02-09 (99EP-0903727)					
<b>AU9924285A</b> =	1999-08-30	200003		English	A61K 9/50
Local appls.: Based on <u>WO9940902</u> (WO 9940902) <u>AU1999000024285</u> Filed: 1999-02-09 (99AU-0024285)					
<input checked="" type="checkbox"/> <b>WO9940902A1</b> =	1999-08-19	199942	26	French	A61K 9/50
(N) AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW Des. States: (R) AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW Local appls.: <u>WO1999FR0000280</u> Filed: 1999-02-09 (99WO-FR00280)					

INPADOC None

Legal Status:

Priority Number:

Application Number	Filed	Original Title
<u>FR199800001781</u>	1998-02-13	SYSTEME D'ENCAPSULATION A COEUR ORGANIQUE ET A ECORCE MINERALE A BASE D'HYDROXYCARBONATE D'ALUMINIUM ET SON PROCEDE DE PREPARATION

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Indexing Codes:

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- [Markush Compound Numbers:](#) [Show Markush numbers](#)  
[Extended Polymer Index:](#) [Show extended polymer index](#)  
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[Registry Numbers:](#) 04[M2]:1677U  
 05[M2]:1495U  
[Unlinked Registry Numbers:](#) 1495U 1677U  
[Related Accessions:](#)

Accession Number	Type	Derwent Update	Derwent Title
C1999-145619	C		
1 item found			

[Title Terms:](#) ENCAPSULATE ORGANIC CORE CONTAIN ACTIVE MATERIAL OUTER LAYER ALUMINIUM HYDROXY CARBONATE PROTECT EASY RELEASE CHANGE PH

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